# Illustrative Mathematics

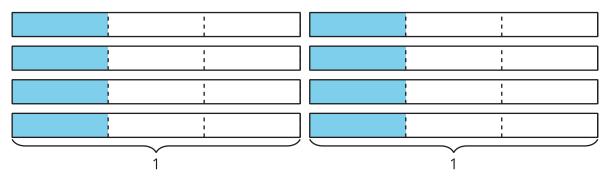
**Grade 4 Unit 3** Lesson 5 CC BY 2021 Illustrative Mathematics®

# **Unit 3 Lesson 5: Equivalent Multiplication Expressions**

## WU How Many Do You See? (Warm up)

#### Student Task Statement

How many thirds do you see? How do you see them?



### **1** Complete the Equations

Student Task Statement

1. Find the number that makes each equation true. Draw a diagram if it is helpful.



2. Here are two sets of numbers:

Set A:

Set B:

 $\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{5}{7}, \frac{6}{7}, \frac{7}{7}$ 

- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
- a. Choose a number from set A and a number from set B to complete this equation and make it true:

$$\frac{6}{7} =$$
\_\_\_\_\_×

b. Choose a different number from set A and a number from set B to complete the equation to make it true.

$$\frac{6}{7} =$$
\_\_\_\_\_×\_\_\_\_

3. Explain or show how you know that the two equations you wrote are both true.

#### 2 Fractions and Matching Expressions

Student Task Statement

Here is a set of expressions.

Α.	В.	C.
$6 \times \frac{1}{10}$	$2 \times 4 \times \frac{1}{9}$	$4 \times \frac{1}{5}$
D.	Ε.	F.
$3 \times 2 \times \frac{1}{10}$	$5 \times 2 \times \frac{1}{12}$	$2 \times 2 \times \frac{1}{5}$
G.	Н.	I.
$4 \times 4 \times \frac{1}{9}$	$10 \times \frac{1}{12}$	$4 \times \frac{1}{12}$

1. Match each expression to one of the following fractions, if possible. Record your matches. Be prepared to explain how you know there is or isn't a match.



2. Complete each equation to make it true. Try to do so without using unit fractions.



Images for Activity Synthesis

